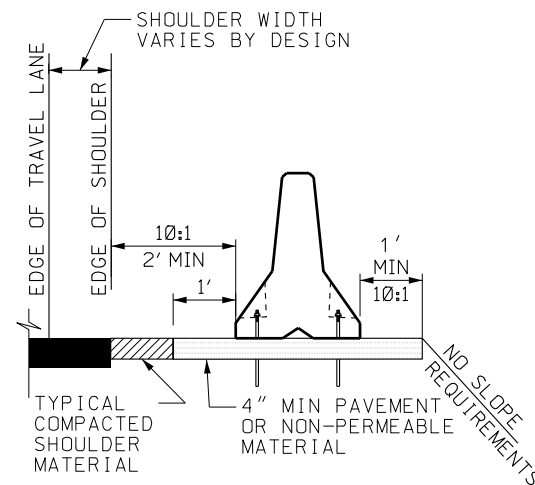


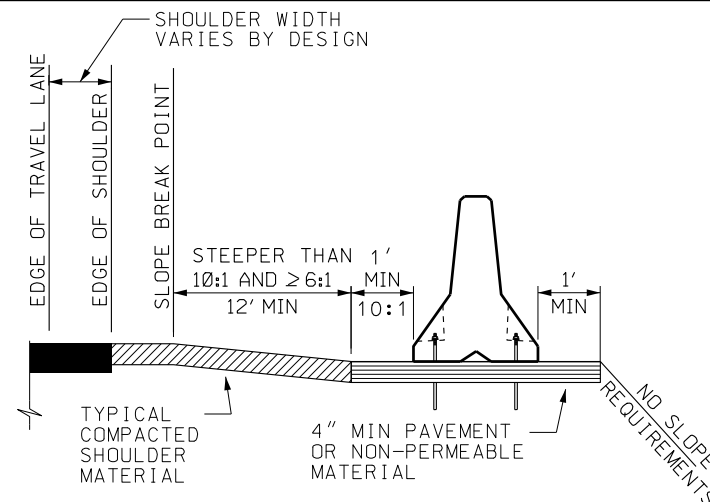
SHOULDER INSTALLATION OPTION 1

NO STABILIZATION PINS REQUIRED



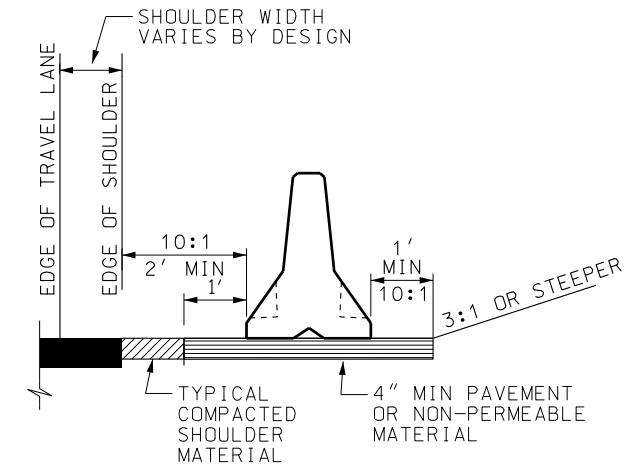
SHOULDER INSTALLATION OPTION 2

STABILIZATION PINS REQUIRED



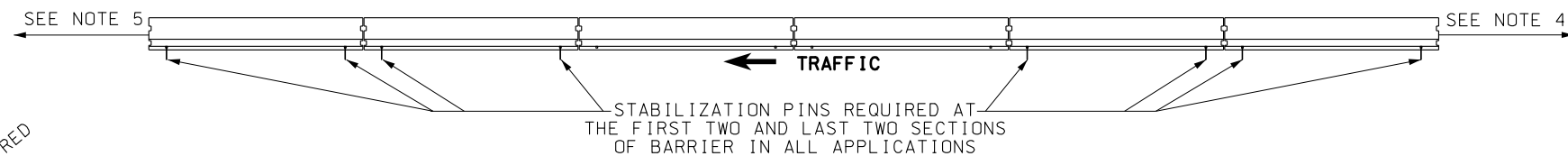
SHOULDER INSTALLATION OPTION 3

STABILIZATION PINS REQUIRED



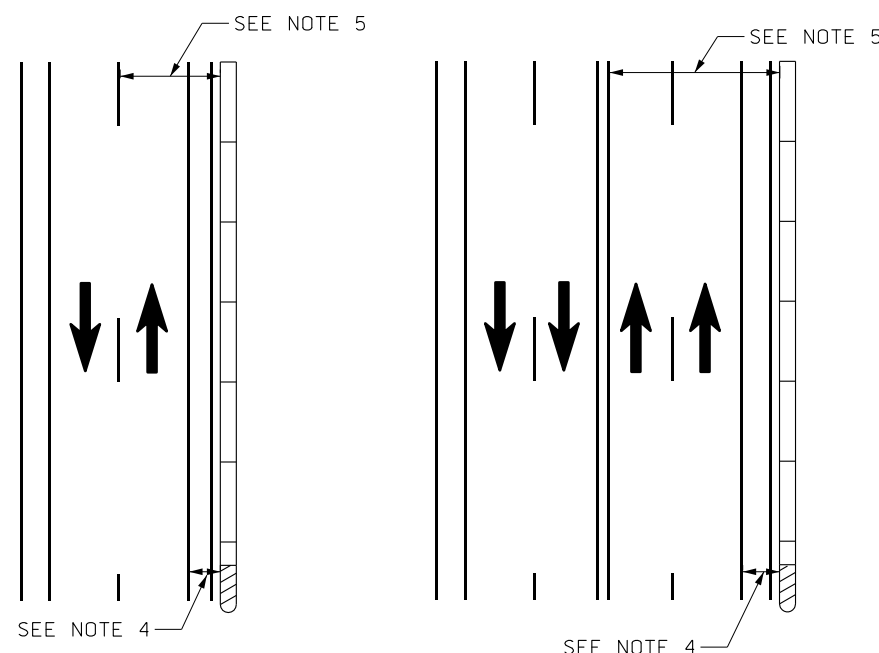
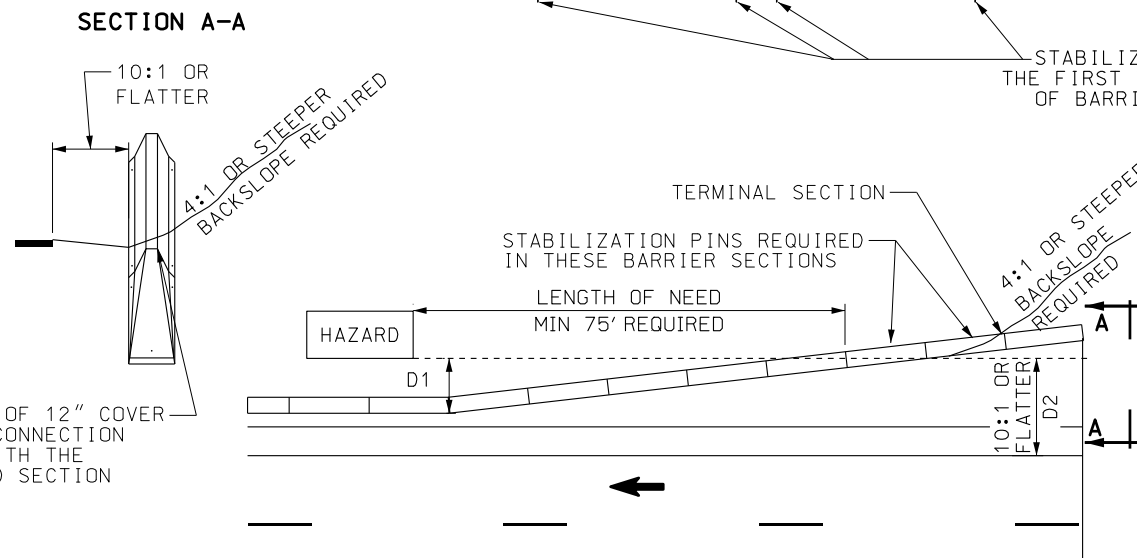
SHOULDER INSTALLATION WITH 3:1 OR STEEPER BACKSLOPE

NO STABILIZATION PINS REQUIRED



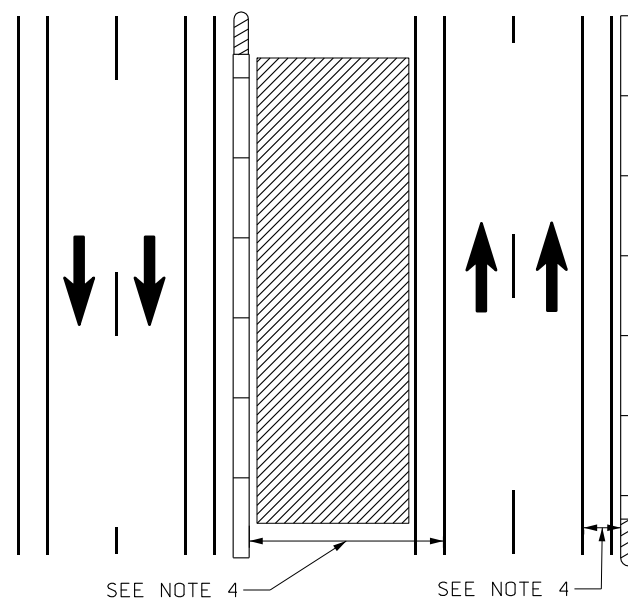
NOTES:

1. USE REQUIRED CLEAR ZONE FROM THE ROADSIDE DESIGN GUIDE, CURRENT EDITION. USE APPROPRIATE FLARE RATE AS SUGGESTED IN ROADSIDE GUIDE, CURRENT EDITION, FOR RIGID BARRIER SYSTEMS, WHEN BARRIER IS PLACED WITH A FLARE.
2. PLACE BARRIER ON A 4" PAVED OR NON-PERMEABLE SURFACE.
3. PIN ALL BARRIER SECTIONS TOGETHER AT CONNECTION LOOPS.
4. INSTALL APPROPRIATE CRASH CUSHION WHEN BARRIER END IS WITHIN 1.2 TIMES REQUIRED AASHTO CLEAR ZONE AND THE DESIGN SPEED IS GREATER THAN 40 MPH. TERMINAL SECTION (STD DWG BA 1C) USE PERMITTED FOR APPROACH TRAFFIC WHEN THE DESIGN SPEED FOR ROADWAY IS 40 MPH OR LESS. INSTALL TERMINAL SECTION (STD DWG BA 1C) WHEN THE APPROACH BARRIER END IS OUTSIDE 1.2 TIMES THE REQUIRED AASHTO CLEAR ZONE.
5. INSTALL APPROPRIATE CRASH CUSHION ON TRAILING END OF BARRIER WHEN BARRIER END IS WITHIN REQUIRED AASHTO CLEAR ZONE, AND THE DESIGN SPEED IS GREATER THAN 40 MPH. INSTALL TERMINAL SECTION (STD DWG BA 1C) WHEN BARRIER END IS OUTSIDE THE MINIMUM REQUIRED CLEAR ZONE BUT WITHIN 1.2 TIMES MAXIMUM THE REQUIRED AASHTO CLEAR ZONE.
6. THE CONCRETE BARRIER DESIGN ALLOWS FOR A 3' OUTWARD LATERAL MOVEMENT IF THE BARRIER IS STRUCK. STABILIZATION PINS ARE NOT REQUIRED WHEN USED ON A SHOULDER APPLICATION AND THE REQUIRED SLOPE OF 8:1 OR FLATTER EXIST 3' BEHIND THE BARRIER. USE STABILIZATION PINS WHEN THE SLOPES ARE STEEPER THAN 8:1 AND WITHIN 3' OF THE BARRIER BACKSIDE.
7. PRE-DRILL A 1" HOLE THROUGH THE PAVED SURFACE PRIOR TO INSTALLING THE STABILIZATION PIN.
8. DO NOT PLACE BARRIER ON TOP OF ANY CURBING.
9. DO NOT OVERLAY ANY MATERIAL PAST THE FIRST BREAK POINT ON THE BARRIER. THE FIRST BREAK POINT IS 3" FROM THE BOTTOM OF THE BARRIER.
10. PLACE AN ADEQUATE AMOUNT OF SILICON ADHESIVE ON THE BOTTOM WASHER OF THE CONNECTION PIN BEFORE INSERTING, TO HOLD IN PLACE AND PREVENT EASY HAND REMOVAL.



TWO LANE/TWO WAY

MULTI-LANE ARTERIAL

MULTI-LANE ARTERIAL WITH
TRAVERSABLE MEDIAN

SUPPLEMENTAL DRAWING

PRECAST CONCRETE FULL SECTION SHOULDER APPLICATIONS

STD DWG
BA 1E

UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
SHEET NUMBER *607-1*

RECOMMENDED FOR APPROVAL	DATE
<i>[Signature]</i>	FEB. 22, 2007
CHAIRMAN STANDARDS COMMITTEE	DATE
<i>[Signature]</i>	FEB. 22, 2007
APPROVED	DATE
<i>[Signature]</i>	
DEPUTY DIRECTOR	

STANDARD DRAWING TITLE

REMARKS

NO.	DATE	APPR.
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REVISIONS		
1	02/22/07	GS SHOULD OPTION 2 AND 3 AND SHOULDER INSTALLATION WITH 3:1 OR STEEPER MODIFIED TO CORRECT 1" MIN DIMENSION TO 1'.